

METHOD AND ARRANGEMENT FOR AIR-CRAFT FUEL DISPERSION

Abstract

Method and arrangement for dispersing fuel 62 within a fuel containment system 60 of an aircraft 30 including utilizing a fuel containment system on an aircraft that is located at least partially within a wing 34 of the aircraft and defines a reservoir portion 42 and a remote portion 44. Fuel is pumped during at least aircraft flight operation from the reservoir portion to the remote portion at a pumped rate 80, while simultaneously fuel that is contained in the remote portion of the fuel containment system is permitted to drain to the reservoir portion at a drainage rate 82. The drainage rate is less than the pumped rate. A fuel mass 64 is accumulated in the remote portion of the fuel containment system because of a difference between the pumped rate and the drainage rate and as a result, a counteractive moment 49 is induced in the aircraft that is opposingly directed to a lift moment 46 caused by wing-lift 45 during aircraft flight.